

Derev. #62654

# Work Order ID 53241



October 28, 2009 11:46:19 AM

Item ID: PB67-43001-85

Accept



Setup Start



Revision ID: B1

Stop



Item Name: PB67-43001-85

Start Date: 10/29/2009 Start Qty: 4.00



Cust Item ID:

Required Date: 11/20/2009 Req'd Qty: 4.00

Customer:

Reference:

Approvals: Process Plan: MF

Date: 09-10-28

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Draw Number	Draw Rev.	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
<b>Draw Nbr</b>	<b>Revision Nbr</b>								
B67-43001	Rev B1								
100	Pick Kit	0.00							
Packaging	Memo	0.00							
Packaging									
110	Large Fab	0.00							
Large Fab	Memo	0.00							
Large Fab	1- assemble and weld as per dwg B67-43001 (QSI004)								
120	Small Fab	0.00							
Small Fab	Memo	0.00							
Small Fab	1- grind weld flush only on side of -193								

④ Cpl 09/11/26

④ Cpl 09/11/27

④ Cpl 09/11/27

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

# Work Order ID 53241

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Page 2

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Start Date: 10/29/2009 Start Qty: 4.00

Required Date: 11/20/2009 Req'd Qty: 4.00




Reference:

Cust Item ID:

Customer:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_  
QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Run Start  
Stop

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Draw Number	Draw Rev.	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130  QC Quality Control	QC9- Inspect visual per QSI004- Fusion Welds  Memo	0.00  0.00				(4)	0	BE 09/11/30	
140  QC Quality Control	QC5- Inspect part completeness to step on W/O  Memo	0.00  0.00				(AC)	7		>) 501/130
150  Powdercoat Powder Coating	Green Sandtex(Ref:4.3.5.8) per QSI005 4.3  M18144. Memo START TIME: 1:00 3:20 <input type="checkbox"/> FINISH TIME: 1:30	0.00  0.00				(4)			OK 09-12-01

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

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NOTE: Date & initial all entries

**Work Order ID 53241**

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Page 3

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Cust Item ID:

Required Date: 11/20/2009 Req'd Qty: 4.00



Customer:

Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

Run Start



QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Stop

Sequence ID/  
Work Center IDOperation  
DescriptionSet Up/  
Run HoursDraw  
NumberDraw  
Rev.Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

160

QC3- Inspect Part Finish

0.00

M 09/12/09

X4

Ø



QC

Memo

0.00

Quality Control

170

PURCHASING

0.00



Purchasing

Memo

0.00

Purchasing

SEND TO TALMAR FOR FOAM AND FABRIC

7/0.12624

CZ 10/9/23 (4)

180

Receive &amp; Inspect for Damage &amp; Mat'l Certs

0.00



Packaging

Memo

0.00

Packaging

C 11/10/4 (3) PTO

W/O: 53241		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
10/10/04	170	fuelman keep 1 pcs as a sample for their production	CL	10/10/05	1	U 10/10-05	

Part No: PB67-43001-85 PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

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NOTE: Date & initial all entries

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Page 4

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Customer:

Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

Run Start



QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Stop

Sequence ID/  
Work Center IDOperation  
DescriptionSet Up/  
Run HoursDraw  
NumberDraw  
Rev.Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

190

QC6- Inspect dimensions to drawing

0.00

8/10/10/04



QC

Memo

0.00

to QC Day

(x3)

Quality Control

200

Identify as per dwg &amp; Stock Location: 445

0.00



Packaging

Memo

0.00

Packaging

10/10/10/05 (3)

210

QC21- Final Inspection - Work Order Release

0.00



QC

Memo

0.00

Quality Control

10/10/10/05

MF  
10-10-06

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

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DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
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**NOTE:** Date & initial all entries



# Picklist Print

October 28, 2009 11:46:19 AM

Page 1

Work Order ID: 53241

Parent Item: PB67-43001-85RevB1

Parent Item Name: PB67-43001-85

Comments:

Start Date: 10/29/2009

Required Date: 11/20/2009

Start Qty: 4.00

Required Qty: 4.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	--------------------------	---------------	----------------	--------

PB67-43001-191RevB1 Manufactured No



D-Pad Back Plate

<u>Warehouse</u>	<u>Loc Qty</u>	<u>Loc Code</u>
<u>Location</u>		

Main Warehouse

ST

41568

22

22

110

Each

10.0000

4.0000



Cpl 09/11/26

PB67-43001-193RevB1 Manufactured No



D-Pad Base

<u>Warehouse</u>	<u>Loc Qty</u>	<u>Loc Code</u>
<u>Location</u>		

Main Warehouse

ST

44992

10

10

100

Each

4.0000

4.0000



④ Cpl 09/11/26 ✓

Cpl 09/11/26

PB67-43001-195RevB1 Manufactured No



D-Pad Face

<u>Warehouse</u>	<u>Loc Qty</u>	<u>Loc Code</u>
<u>Location</u>		

Main Warehouse

ST

43437

4

4

④ Cpl 09/11/26 ✓

Cpl 09/11/26

④ Cpl 09/11/26 ✓

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

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Page 2

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Parent Item Name: PB67-43001-85

Comments:

Start Date: 10/29/2009

Required Date: 11/20/2009

Start Qty: 4.00

Required Qty: 4.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
PB67-43001-339RevB1 D-Pad Top		Manufactured	No			110	Each	11.0000	4.0000			

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST439A

52420

11

11

*CP 10/29/26*

*(4) CP 10/29/26 ✓*

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

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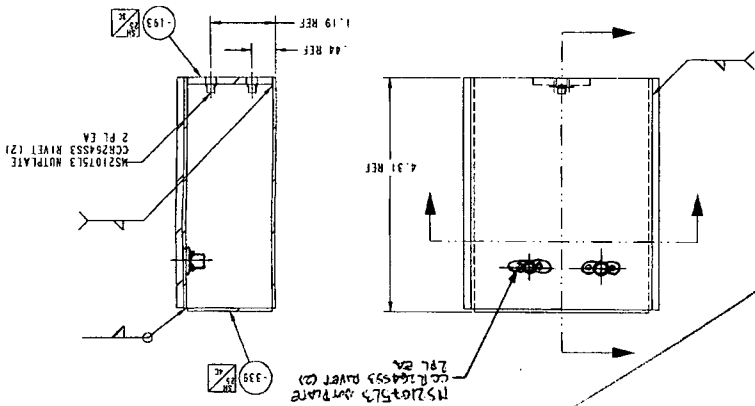
NOTE: Date & initial all entries

ORIGINAL

PREMIER AVIATION, INC.  
300 Aviation Parkway, Grand Prairie, Texas 75050  
REV. 12 OF 15  
PART NO. B67-43001  
REV. 12 OF 15

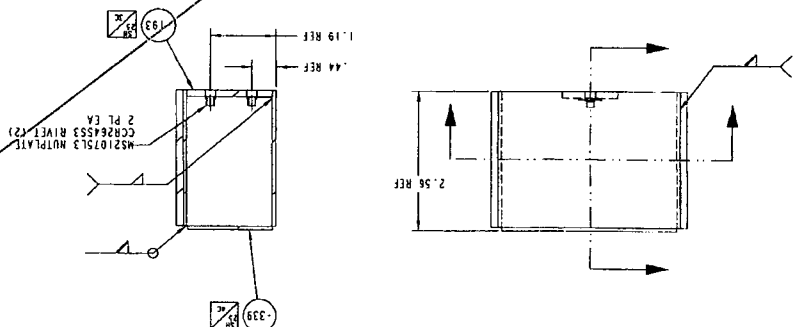
② -85 LONG D-PAD ASSEMBLY

SCALE 1:000

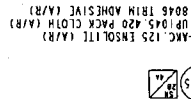
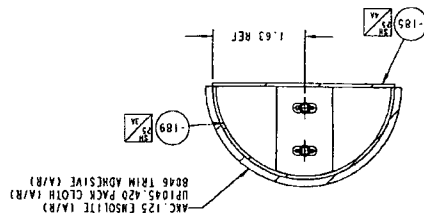


③ -83 SHORT D-PAD ASSEMBLY

SCALE 1:000



#53041



RELEASED

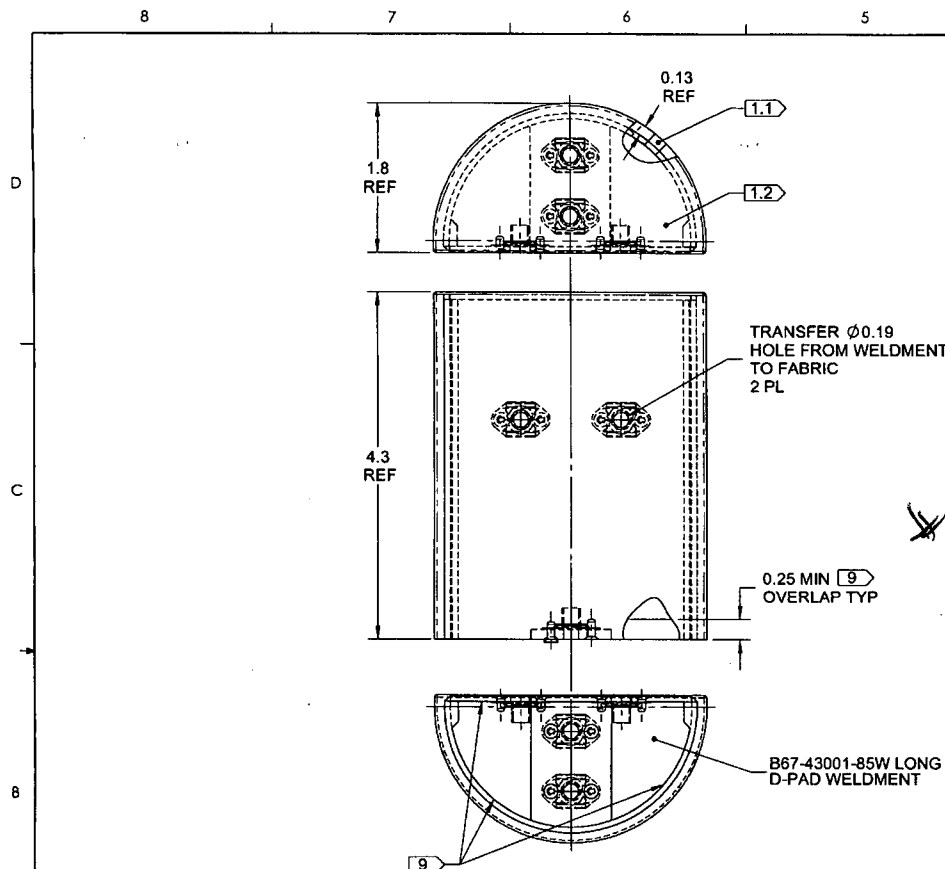
W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

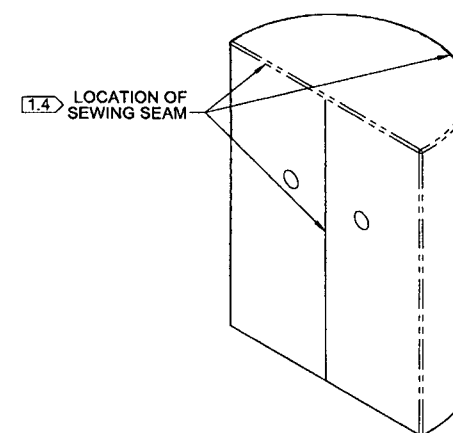
Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

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**NOTE:** Date & initial all entries



ITEM	QTY. -85	P/N	DESCRIPTION
1	X	B67-43001-85	D-PAD ASSEMBLY, LONG
2	1	B67-43001-85W	LONG D-PAD WELDMENT
3	A/R	1637-002	SEE NOTE 1.1
4	A/R	1495	SEE NOTE 1.2
5	A/R	LA4009	SEE NOTE 1.3
6	A/R	2530	SEE NOTE 1.4



**B67-43001-85 D-PAD ASSEMBLY, LONG**

**NOTES:**

**1) MATERIAL:**

- 1.1) FOAM: ETHYLENE PROPYLENE NEOPRENE SBR CLOSED-CELL, FLAME RETARDANT, 0.125 THICK, PER ASTM D1056 2A2, SERVICE TEMP -40 °F TO +200 °F, COLOUR: BLACK, REF. TULMAR P/N 1637-002
- 1.2) FABRIC: 100% 420 DENIER NYLON, MIN THREAD COUNT 35X35, POLYURETHANE COATED ONE SIDE, COLOUR: BLACK, REF. TULMAR P/N 1495
- 1.3) ADHESIVE: URETHANE WITH CATALYST, TWO PART, CLIFTON LA4009
- 1.4) THREAD: NYLON, BLACK, V-T-295 TYPE 2, CLASS A, SIZE F, 8-10 STITCHES PER INCH, REF. TULMAR P/N 2530
- 2) FINISH: BOND NEOPRENE TO COVER PLATE USING ADHESIVE. COVER WITH DENIER AS SHOWN.
- 3) TOLERANCES: PER TABLE 1 (ZN A3-1) UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.42 lbs REF
- 8) NUTPLATES AND HOLES MUST REMAIN FREE OF ADHESIVE AND FABRIC
- 9) DENIER NYLON TO OVERLAP BY 0.25 MIN AND BE BONDED ALL AROUND INNER SIDES OF PLATE

**TABLE 1**

TOLERANCES ON FABRIC (PARTS AND ASSEMBLIES)
±1/8: DIMS <2
±1/4: DIMS 2 TO <10
±1/2: DIMS 10 TO <20
±5/8: DIMS 20 TO <40
±1.5%: DIMS EQUAL TO OR > 40

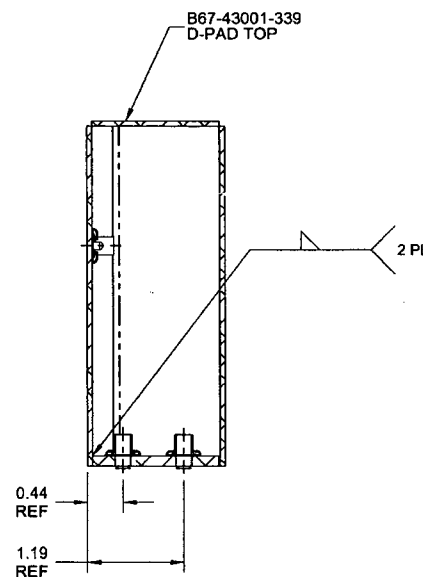
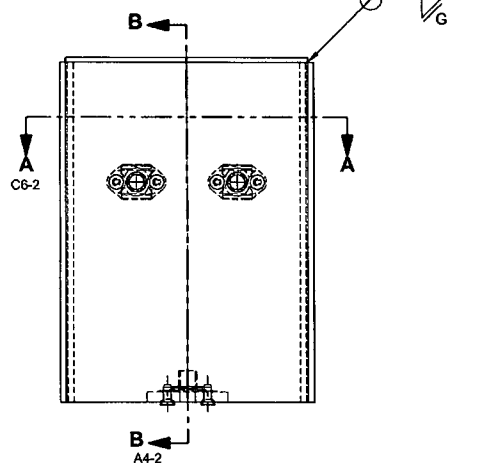
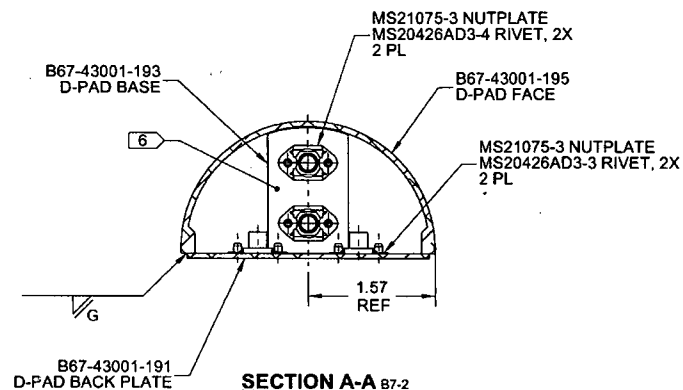
C	REDRAWN PREMIER AVIATION DRAWING IAW DART QSI 018, QSI 043 AND TULMAR SAFETY SYSTEMS INC.'S MANUFACTURING PROCESS AND TOLERANCES ON FABRIC. FOR PREVIOUS REVISIONS, REFER TO SHEET 12 OF PREMIER AVIATION DRAWING No. B67-43001. REASON: SEE PAR#09-011.	MB	10.04.27
REV.	DESCRIPTION	BY	DATE
DESIGN	RW		
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.	N/A		
DATE	10.04.27		

**RELEASED**  
2010-09-16

**DART AEROSPACE LTD**  
HAWKESBURY, ONTARIO, CANADA

DRAWING NO. **B67-43001-85** REV. C  
SHEET 1 OF 2  
TITLE **D-PAD ASSEMBLY, LONG** SCALE NTS

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15384

ITEM	QTY -85W	P/N	DESCRIPTION
1	X	B67-43001-85W	LONG D-PAD WELDMENT
2	1	B67-43001-191	D-PAD BACK PLATE
3	1	B67-43001-193	D-PAD BASE
4	1	B67-43001-195	D-PAD FACE
5	1	B67-43001-339	D-PAD TOP
6	4	MS20426AD3-3	RIVET
7	4	MS20426AD3-4	RIVET
8	4	MS21075L3	NUT PLATE

RELEASED  
2010-09-16

- NOTES:
- 1) MATERIAL: NONE
  - 2) FINISH: POWDER COAT GREEN SANDTEX (4.3.5.8) PER DART QSI 005 4.3
  - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
  - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
  - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
  - 6) IDENTIFICATION: IDENTIFY WITH DART P/N "B67-43001-85W" AND B/N "BXXXXX" USING FINE POINT PERMANENT INK MARKER
  - 7) WEIGHT: 0.42 lbs
  - 8) WELDING: PER DART QSI 004

DESIGN	R/W	DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. C
MFG. APPR.		B67-43001-85	SHEET 2 OF 2
APPROVED		TITLE	SCALE
DE APPR.	N/A	D-PAD ASSEMBLY, LONG	NTS
DATE	10.04.27	<small>COPYRIGHT © 1995 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR CHALLENGED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD</small>	



# TULMAR

## PACKING SLIP COPY

Tulmar Safety Systems Inc.  
1123 Cameron Street  
Hawkesbury, ON K6A 2B8 CA  
Tel: 613-632-1282  
Fax: 613-632-2030  
MID : XOTULSAF1123HAW  
email: info@tulmar.com

Bill To:

**Dart Aerospace**  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7. Canada

Packing Slip No.

**37305**

Ship Date

4-Oct-10

Ship to:

**Dart Aerospace**  
1270 Aberdeen Street  
Call Chantal re Pick-Up  
Tel: 613-632-9577  
Hawkesbury, ON K6A 1K7. Canada

Order number	Sales order date	Account number	Account manager
25447	28-Sep-10	CDART100	Barney Bangs
PO number	Ship Via	Shipping Terms	
PO12624	Pick-Up	FOB HAWKESBURY	
Item No.	Quantity ordered	UOM	Qty Shipped/Returned
Description			Quantity on back order
8421-105 Cover Plate, 20°/ Drawing No: B67-43001-73 DWG Rev: C Lot No: BATCH0000000005 Qty: 7	7	EA	7
			1
8421-101 D-Pad Assembly, Short/ Drawing No: B67-43001-83 DWG Rev: C Lot No: BATCH0000000008 Qty: 11	11	EA	11
			1
8421-102 D-Pad Assembly, Long/ Drawing No: B67-43001-85 DWG Rev: C **Dart to make new holes themselves Lot No: BATCH0000000006 Qty: 3	3	EA	3
			1
8421-104 Cover Plate/ Drawing No: B67-43001-173 DWG Rev: C Lot No: BATCH0000000008 Qty: 11	11	EA	11
			1
8421-103 Cover Plate/ Drawing No: B67-43001-181 DWG Rev: C Lot No: BATCH0000000006 Qty: 11	11	EA	11
			1

*Signature*

# PACKING SLIP

# TULMAR

Tulmar Safety Systems Inc.  
1123 Cameron Street  
Hawkesbury, ON K6A 2B8 CA  
Tel: 613-632-1282  
Fax: 613-632-2030  
MID : XOTULSAF1123HAW  
email: info@tulmar.com

**Bill To:**

**Dart Aerospace**  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7. Canada

**Packing Slip No.**

**37305**

**Ship Date**

4-Oct-10

**Ship to:**

**Dart Aerospace**  
1270 Aberdeen Street  
Call Chantal re Pick-Up  
Tel: 613-632-9577  
Hawkesbury, ON K6A 1K7. Canada

Shipper

*Rick Andrews*

Date:

*4-Oct-2010*

**Certificate of Conformance**

☐ Not Applicable

☐ See Certification Enclosed

I hereby certify that the items listed hereon have been inspected, and / or tested (as applicable), conform to all specifications and requirements detailed in the contract or purchase order. Objective evidence to support this statement is on file, and can be made available upon request.  
If any questions or concerns, please contact QA Manager @ 613-632-1282 ext. 245.

Authorized Inspector

*Roxanne Korthwick*

Date:

*Oct 7/10*



# J. ENNIS FABRICS LTD.

Wholesale Distributor of Textiles and Supplies

March 9, 2010

Fax To: Tulmar Safety Systems  
 Fax: 613-632-2030  
 Attention: Sandra Nadeau

**EDMONTON  
 HEAD OFFICE**  
 12122 - 68 Street  
 Edmonton, AB T5B 1R1  
 Canada  
 Phone: (780) 474-5721

## Certificate of Conformance

Re: PO 17505-00 for Oxford 7 Black

The goods shipped on P/O 17505-00 are as per sampled goods. Specification as follows:  
 As per mill documentation:

Oxford 7 black is in compliance with the following standards:

Width: Product is 58 inches Wide.

Roll Size: Average Roll Length is 75 Yards.

Weight: Product Weight is 6.79 Ounces per Sq. Yd. / Product Weight is 10.94 oz per Lin. Yd

Content: 100% Nylon

Coating: Product has a Polyurethane Coating {approximately 0.65 oz/ Sq. Yd. (18.5g/sq.yd.)}

Denier: Yarn is 420 Denier.

Thread Count: Construction is 62 x 38 Threads per Square Inch

Protective Finish: Product is Water Repellent.

Hydro Resist: AATCC 127 (Suter): Average 800 mm

Piece # 105255723, Manufacture Date: 12/30/09, Lot Number: 379360  
 Piece # 105255723, Manufacture Date: 12/30/09, Lot Number: 379360  
 Piece # 105255749, Manufacture Date: 12/30/09, Lot Number: 379360

**VANCOUVER**  
 13911 Bridgeport Road  
 Richmond, BC V6V 1J6  
 Canada

**MONTREAL**  
 5280 boulevard du Golf  
 Anjou, QC H1J 3A1  
 Canada

Sincerely,  
 J. Ennis Fabrics Ltd.

S. James

Sharon James  
 Product Development

used on TSS 8421-105 (B67-43001-73)  
 8421-101 (B67-43001-83)  
 8421-102 (B67-43001-85)  
 8421-104 (B67-43001-173)  
 8421-103 (B67-43001-181)

English: 1-800-66-ENNIS

Fax: (780) 479-6135  
 www.jennisfabrics.com

Français: 1-888-66-ENNIS

TSS 1495/15

E.F. Walter Inc.	<b>CERTIFICAT DE CONFORMITÉ</b> <b>CERTIFICATE OF COMPLIANCE</b>		Approved <u>JR</u> Date <u>1/3/02</u>
Revision # 0	Revision date: January 30, 2002	Doc # F.7.5.5.A	Page 1 of 1

Date : 09/09/2008

VENDU À  
SOLD TO

6048

TULMAR SAFETY SYSTEMS INC.  
1123 CAMERON STREET  
HAWKESBURY ONT  
K6A 2B8

FOURNISSEUR  
VENDOR

E.F. WALTER INC.  
180 BARTOR ROAD  
TORONTO, ONTARIO  
M9M 2W6

Commande / Order # 14649-00

Notre / Our Reference # 55968

Nous certifions par la présente que la totalité du matériel inscrit ci-dessous a été inspecté et vérifié et est conforme aux devis et aux normes mentionnés sur votre commande.

We hereby certify that all of the material listed below has been inspected and tested and conforms to the drawings and / or specifications stated on your purchase order.

Item	Quantité Quantity	Pièce # Part #	Description
742050005	8.000 PCS	# 1637-001	SPONGE NEOPRENE BLACK SC42 TRIMMED NO SKIN (1/2" x 54" x 72") ASTM D1056. 2A2
			<u>5,0/10/04</u>
			LOT # 75570 MANUFACTURING DATE: Sept. 5, 2008

used on TSS 8421-101 (B67-43001-83)  
102 (B67-43001-85)  
103 (B67-43001-181)  
104 (B67-43001-173)  
105 (B67-43001-73)

Signé  
Signed

[Signature]  
09/09/2008

+ # 11-27 1/27



**American & Efird Inc.**  
**Post Office Box - 507**  
**Mount Holly, NC -28120**

**Test Report**

Date : 10/1/2010

Mfg. Date : 3/27/2010

Quantity: 44

Lot Id : 705150

Product : Tex 90 BONDED 'Z' NYLON FILAMENT Black AA 63002 16 OZ

Specification : A-A-59826 TPII CLA F BT92N4

Customer Order Number : 17499-00

Plys (Visual) : 4

Customer : Tulmar Safety Inc.

Twist Direction : Z

Shipped To : Tulmar Safety Inc.

A&E Color : 63002 Black  
AA

Description : Bright, Continuous Multifilament Nylon, Melting Point >472F; Colorless Nylon Polymer Bond;  
Polypropylene Spools

Characteristic	Test1	Test2	Test3	Test4	Test5	Average	Minimum	Maximum
Strength #1 (Pound)	15.2	15.7	15.6	15.7	15.8	15.619		
Strength #2 (Pound)	15.4	15.1	15.2	15.4	14.8	15.177		
Average Strength (Pound)						15.4	11.8	

Elongation #1 (Percent)	20.5	22.4	21.8	22	21.8	21.722		
Elongation #2 (Percent)	22.3	21.4	21.9	22.5	21.1	21.856		
Average Elongation (Percent)						21.8		26

Lube

Pass Pass

Twist S #1 (Turns per inch)	12.2	12.2	12.2	12.2	12.2	12.2		
Twist S #2 (Turns per inch)	12.2	12.2	12.2	12.2	12.2	12.2		
Average Twist S (Turns per inch) Initial Twist						12.2		

Twist Z #1 (Turns per inch)	8.1	8.1	8.1	8.1	8.1	8.1		
Twist Z #2 (Turns per inch)	8.1	8.1	8.1	8.1	8.1	8.1		
Average Twist Z (Turns per inch) Final Twist						8.1	5.5	

Yield #1 (Yards/Pound)	4211.8		4211.8					
Yield #2 (Yards/Pound)	4114.7		4114.7					
Average Yield (Yards/Pound)			4163.2	3601	5200			

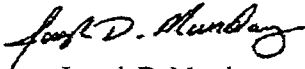
Laundry #1 (Grading Scale)	5		5					
Laundry #2 (Grading Scale)	5		5					
Average Laundry (Grading Scale)			5	3				

used on TSS 8421-102 (B67-43001-85)

Dry Cleaning #1 (Grading Scale)	5	5	
Dry Cleaning #2 (Grading Scale)	5	5	
Average Dry Cleaning (Grading Scale)		5	3
Perspiration #1 (Grading Scale)	5	5	
Perspiration #2 (Grading Scale)	5	5	
Average Perspiration (Grading Scale)		5	3
Color Fastness to Light #1 (Grading Scale)	5	5	
Color Fastness to Light #2 (Grading Scale)	5	5	
Average Color Fastness to Light (Grading Scale)		5	3.4

I certify that the above test were performed under my supervision and in accordance with the specification test requirements and that the reported test results are true, valid and applicable to the samples tested. I further certify that these samples were the only samples tested from the lot of components identified above.

Signed :



Joseph D. Munday  
Testing Director

Note

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**American & Efird Inc.**  
**Post Office Box - 507**  
**Mount Holly, NC -28120**

### Test Report

Date : 9/17/2010

Mfg. Date : 3/27/2010

Quantity: 43

Lot Id : 705150

Product : Tex 90 BONDED 'Z' NYLON FILAMENT Black AA 63002 16 OZ

Specification : A-A-59826 TPII CLA F BT92N4

Plys (Visual) : 4

Customer Order Number : 17499-00

Twist Direction : Z

Customer : Tulmar Safety Inc.

A&E Color : 63002 Black  
AA

Shipped To : Tulmar Safety Inc.

Description : Bright, Continuous Multifilament Nylon, Melting Point >472F; Colorless Nylon Polymer Bond;  
Polypropylene Spools

Characteristic	Test1	Test2	Test3	Test4	Test5	Average	Minimum	Maximum
Strength #1 (Pound)	15.2	15.7	15.6	15.7	15.8	15.619		
Strength #2 (Pound)	15.4	15.1	15.2	15.4	14.8	15.177		
Average Strength (Pound)						15.4	11.8	

Elongation #1 (Percent)	20.5	22.4	21.8	22	21.8	21.722		
Elongation #2 (Percent)	22.3	21.4	21.9	22.5	21.1	21.856		
Average Elongation (Percent)						21.8	26	

Lube	Pass	Pass
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Twist S #1 (Turns per inch)	12.2	12.2	12.2	12.2	12.2	12.2
Twist S #2 (Turns per inch)	12.2	12.2	12.2	12.2	12.2	12.2
Average Twist S (Turns per inch) Initial Twist						12.2

Twist Z #1 (Turns per inch)	8.1	8.1	8.1	8.1	8.1	8.1
Twist Z #2 (Turns per inch)	8.1	8.1	8.1	8.1	8.1	8.1
Average Twist Z (Turns per inch) Final Twist					8.1	5.5

Yield #1 (Yards/Pound)	4211.8	4211.8		
Yield #2 (Yards/Pound)	4114.7	4114.7		
Average Yield (Yards/Pound)	4163.2	3601	5200	

Laundry #1 (Grading Scale)	5	5
Laundry #2 (Grading Scale)	5	5
Average Laundry (Grading Scale)		3

used on TSS 8421-101 (B67-43001-83)

TSS #2530/48

Dry Cleaning #1 (Grading Scale)	5
Dry Cleaning #2 (Grading Scale)	5
Average Dry Cleaning (Grading Scale)	

5	
5	
5	3

Perspiration #1 (Grading Scale)	5
Perspiration #2 (Grading Scale)	5
Average Perspiration (Grading Scale)	

5	
5	
5	3

Color Fastness to Light #1 (Grading Scale)	5
Color Fastness to Light #2 (Grading Scale)	5
Average Color Fastness to Light (Grading Scale)	

5	
5	
5	3.4

I certify that the above test were performed under my supervision and in accordance with the specification test requirements and that the reported test results are true, valid and applicable to the samples tested. I further certify that these samples were the only samples tested from the lot of components identified above.

Signed : *Joseph D. Munday*  
Joseph D. Munday  
Testing Director

**Note**

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BS # 2530/48 (2)